

 PALM IntranetApplication Number IDS Flag Clearance for Application **IDS
Information**

Content	Mailroom Date	Entry Number	IDS Review	Reviewer
M844	06-12-2003	12	<input checked="" type="checkbox"/>	06-23-2003 09:41:29 dwendemagegeh

First Hit Fwd Refs
End of Result Set

Previous Doc Next Doc Go to Doc#

☐ **Generate Collection** **Print**

L12: Entry 1 of 1

File: USPT

Jun 21, 2005

US-PAT-NO: 6909708
DOCUMENT-IDENTIFIER: US 6909708 B1

TITLE: System, method and article of manufacture for a communication system architecture including video conferencing

DATE-ISSUED: June 21, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Krishnaswamy; Sridhar	Cedar Rapids	IA		
Elliott; Isaac K.	Colorado Springs	CO		
Reynolds; Tim E.	Iowa City	IA		
Forgy; Glen A.	Iowa City	IA		
Solbrig; Erin M.	Cedar Rapids	IA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
MCI Communications Corporation	Washington	DC			02

APPL-NO: 08/ 751668 [PALM]
DATE FILED: November 18, 1996

INT-CL: [07] H04 L 12/66, H04 L 12/28, H04 L 12/56

US-CL-ISSUED: 370/352; 370/389, 370/392, 379/90.01, 379/93.07, 379/114
US-CL-CURRENT: 370/351; 370/389, 370/392, 379/114.01, 379/90.01, 379/93.07

FIELD-OF-SEARCH: 370/352, 370/383, 370/389, 370/390, 370/392, 370/401, 370/402, 370/256, 370/410, 370/408, 379/67, 379/89, 379/93.07, 379/93.08, 379/93.25, 379/100.11, 379/114, 379/201, 379/207, 379/100.13, 379/93.14, 379/93.29, 379/93.01, 379/90.01, 455/436

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected **Search ALL** **Clear**

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4100377</u>	July 1978	Flanagan	179/15
<input type="checkbox"/> <u>4464543</u>	August 1984	Kline et al.	

<input type="checkbox"/>	<u>4771425</u>	September 1988	Baran et al.	370/85
<input type="checkbox"/>	<u>4969184</u>	November 1990	Gordon et al.	379/100.13
<input type="checkbox"/>	<u>5197127</u>	March 1993	Waclawsky et al.	
<input type="checkbox"/>	<u>5479473</u>	December 1995	Zey	
<input type="checkbox"/>	<u>5526353</u>	June 1996	Henley et al.	370/60.1
<input type="checkbox"/>	<u>5539736</u>	July 1996	Johnson et al.	
<input type="checkbox"/>	<u>5541927</u>	July 1996	Kristol et al.	370/256
<input type="checkbox"/>	<u>5561670</u>	October 1996	Hoffert et al.	370/410
<input type="checkbox"/>	<u>5604737</u>	February 1997	Iwami et al.	370/352
<input type="checkbox"/>	<u>5608786</u>	March 1997	Gordon	370/352
<input type="checkbox"/>	<u>5610910</u>	March 1997	Focsaneanu et al.	370/351
<input type="checkbox"/>	<u>5636216</u>	June 1997	Rox et al.	370/402
<input type="checkbox"/>	<u>5644619</u>	July 1997	Farris et al.	
<input type="checkbox"/>	<u>5692126</u>	November 1997	Templeton et al.	
<input type="checkbox"/>	<u>5712907</u>	January 1998	Wegner et al.	379/112
<input type="checkbox"/>	<u>5719928</u>	February 1998	Pinnell et al.	
<input type="checkbox"/>	<u>5724355</u>	March 1998	Bruno et al.	370/401
<input type="checkbox"/>	<u>5740229</u>	April 1998	Hanson et al.	
<input type="checkbox"/>	<u>5867494</u>	February 1999	Krishnaswamy et al.	
<input type="checkbox"/>	<u>5916302</u>	June 1999	Dunn et al.	
<input type="checkbox"/>	<u>5995608</u>	November 1999	Detampel, Jr. et al.	
<input type="checkbox"/>	<u>6029195</u>	February 2000	Herz	
<input type="checkbox"/>	<u>6131121</u>	October 2000	Mattaway et al.	
<input type="checkbox"/>	<u>6188756</u>	February 2001	Mashinsky	
<input type="checkbox"/>	<u>6243373</u>	June 2001	Turock	
<input type="checkbox"/>	<u>6343313</u>	January 2002	Salesky et al.	
<input type="checkbox"/>	<u>6377576</u>	April 2002	Zwick et al.	
<input type="checkbox"/>	<u>6430282</u>	August 2002	Bannister et al.	
<input type="checkbox"/>	<u>6501740</u>	December 2002	Sun et al.	
<input type="checkbox"/>	<u>6563914</u>	May 2003	Sammon et al.	

OTHER PUBLICATIONS

Macedonia, M.R. and Brutzman, D.P., "MBone Provides Audio and Video Across the Internet", IEEE Computer, pp. 30-36, Apr. 1994.

Kumar, V., "Internet Multicasting: Internet's Next Big Thing", ICAST White Paper, pp. 1-11, Jan. 1996.

Schulzrinne, H. et al., "RFC 1889--RTP: A Transport Protocol for Real-Time Applications", Jan. 1996.

Schulzrinne, H. et al., "RFC 1890--RTP Profile for Audio and Video Conferences with Minimal Control", Jan. 1996.

Eriksson, H., "MBONE: The Multicast Backbone", Communications of the ACM, vol. 37,

No. 8, pp. 54-60, Aug. 1994.
Sullivan, K.B., "Videoconferencing Arrives on the Internet", PC Week (Aug. 22, 1996), Aug. 1996.
Kahn, J., "Videoconferencing Debuts on the Internet", <<http://www.lbl.gov/Science-Articles/Archive/Stu-Loken-MBONE.html>>, Feb. 1995.
DataBeam-Net. 120 Conference Server 2.0.
DataBeam Meeting Tools.
NetSpeak Automated Call Distributor Server.
Vocal Tec-Strategy Internet Dial Tone: Beyond Voice.
Net Speak -iCAD.
DataBeam A Primer on the T.120 Series Standard.
Lautenbacher et al., "Intelligent Internet: Value-Added Services by Interworking between Between Technologies", ISS '97 World Telecommunications Congress International Switching Symposium), Global Network Evolution: Convergence or Collision? Toronto, Sep. 221-26, 1997, vol. 2, Sep. 21, 1997, pp. 45-51.
MacPherson, G., "Why Call Centers Won't Escape the World Wide Web", Business Communications Review, Hinsdale, IL, vol. 26, No. 6, Jun. 1996, pp. 39-41.
Kaufman, H., "Call Centers in Cyberspace", Communications News, vol. 34, No. 7, Jul. 1, 1997, pp. 20-21.
Comer, Douglas, "Internetworking With TCP/IP Vol. 1: Principles, Protocols, and Architecture"; Third Ed.; Prentice Hall; 1995 pp. 127-578.
Norenkov et al., "Telecommunication Technologies and Networks", Bauman MGTU Press, 1998, p. 80.

ART-UNIT: 2733

PRIMARY-EXAMINER: Patet; Alit

ABSTRACT:

Telephone calls, data and other multimedia information including video, audio and data is routed through a switched network which includes transfer of information across the internet. Users can participate in video conference calls in which each participant can simultaneously view the video from each other participant and hear the mixed audio from all participants. Users can also share data and documents with other video conference participants. Users can manage more aspects of a network than previously possible, and control network activities from a central site.

20 Claims, 194 Drawing figures

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)

[First Hit](#) [Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)**End of Result Set**

Generate Collection

Print

L15: Entry 1 of 1

File: USPT

Jun 21, 2005

DOCUMENT-IDENTIFIER: US 6909708 B1

TITLE: System, method and article of manufacture for a communication system architecture including video conferencing

Detailed Description Text (2074):

The provides the guest the ability to access to a Personal Home Page directory through the existing MCI Home Page. This directory allows the guest to search all established Personal Home Page accounts for a specific Personal Home Page address, by specifying Last Name (required); First Name (optional), Organization (optional), State (optional) and/or Zip Code (optional). Results from the Personal Home Page directory search return the following information: Last Name, First Name, Middle Initial, Organization, City, State and Zip Code. Although City is not requested in search criteria it is provided in search results.

Detailed Description Text (2108):

The subscriber is able to search and sort lists by name or by the different address fields. For example, a user is able to search for all lists containing `DOLE` by using the *DOLE* command within the search function. In addition, users are able to search lists using any of the address fields. For example, a user could search based on a recipient number, `to` name or zip code. A user is able to sort lists by list names, identifiers and types or by any address field.

[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

Detailed Description Text (225):

In an embodiment, the order entry system 1945 generates complete profile information for a given telephone number, including, name, address, fax number, secretary's number, wife's phone number, pager, business address, e-mail address, IP address and phonemail address. This information is maintained in a database that can be accessed by everyone on the network with authorization to do so. In an alternate embodiment, the order entry system utilizes a web interface for accessing an existing directory service database 1934 to provide information for the profile to supplement user entered information.

Detailed

[First Hit](#) [Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)**End of Result Set**☐ [Generate Collection](#) [Print](#)

L13: Entry 1 of 1

File: USPT

Jun 21, 2005

DOCUMENT-IDENTIFIER: US 6909708 B1

TITLE: System, method and article of manufacture for a communication system architecture including video conferencing

Detailed Description Text (253):

The provider components 2108 in FIG. 20 are: Intelligent Services 2110--responsible for service provisioning, service delivery, and service assurance, including the internal data communications networks 2102. This represents the ISP's role. Revenue Management 2112--responsible for financial aspects of customer services. Network Management 2114--responsible for the development and operation of the physical networks 2102. Product Management 2116--responsible for the creation and marketing of customer services.

Detailed Description Text (850):

The benefits of object classes can be summarized, as follows: Objects and their corresponding classes break down complex programming problems into many smaller, simpler problems. Encapsulation enforces data abstraction through the organization of data into small, independent objects that can communicate with each other. Encapsulation also protects the data in an object from accidental damage, but allows other objects to interact with that data by calling the object's member functions and structures. Subclassing and inheritance make it possible to extend and modify objects through deriving new kinds of objects from the standard classes available in the system. Thus, new capabilities are created without having to start from scratch. Polymorphism and multiple inheritance make it possible for different programmers to mix and match characteristics of many different classes and create specialized objects that can still work with related objects in predictable ways. Class hierarchies and containment hierarchies provide a flexible mechanism for modeling real-world objects and the relationships among them. Libraries of reusable classes are useful in many situations, but they also have some limitations. For example: Complexity. In a complex system, the class hierarchies for related classes can become extremely confusing, with many dozens or even hundreds of classes. Flow of control. A program written with the aid of class libraries is still responsible for the flow of control (i.e., it must control the interactions among all the objects created from a particular library). The programmer has to decide which functions to call at what times for which kinds of objects. Duplication of effort. Although class libraries allow programmers to use and reuse many small pieces of code, each programmer puts those pieces together in a different way. Two different programmers can use the same set of class libraries to write two programs that do exactly the same thing but whose internal structure (i.e., design) may be quite different, depending on hundreds of small decisions each programmer makes along the way. Inevitably, similar pieces of code end up doing similar things in slightly different ways and do not work as well together as they should.

Detailed Description Text (2685):

The terminating switch 10351 then determines the correct Terminating Trunk Group (TTG) utilizing information transmitted via SS7 network created from a parameter in the original DAP response, and routes the call to the California customer service center. When a call is routed through a switch, it is passed via a Direct Access

- Line (DAL) connection such as DAL 10386 to the customer PBX 10387 which delivers the call to the target telephone 10361.

[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)